Installing the RDSP-3000A-NIST Master Clock.

Equipment

The following equipment comes with the clock system:

- **RDSP-3000A-NIST Master Clock Module.**
- **Power supply** (12VDC, 9 amp)

Customer Provided Equipment

- Ethernet cable for connecting to a TCP/IP network.
- CAT5 cabling for the remote displays.

Connectors

The RDSP-3000A-NIST has the following connectors:

- In and Out jacks for optional remote devices.
- 12 – RJ-45 remote displays Jacks.
- Power input from the power supply.
- 1 – RJ-45 Ethernet connector.

Remote Display

Connect the remote display to the RDSP-3000A-NIST using a CAT5 cable with RJ-45 connectors at both ends.

- Connect one end of the cable to jacks labeled 1 through 12 on the RDSP-3000A-NIST.
- Connect the other end of the cable to the RJ-45 jack on the remote display.

Power Connection

- Connect the cable coming from the RDSP-3000A-NIST into the jack on the power supply.
- Plug the power supply into a 120VAC receptacle.

Power Up

When the Internet TimeKeeper™ first powers up, it detects if the back-up battery has been removed or was not functioning while it was turned off. If a loss of the back-up battery is detected the Internet TimeKeeper™ resets to its internal defaults and the log file is cleared. A log entry is recorded marking the time the unit was powered up. After this, it initializes networking and attempts to retrieve the time from the first time server in the list.

Note: a log entry will be recorded every time the password changes.

Ethernet

Connect the RJ-45 connector to a TCP/IP network.

- Obtain an IP address from your system administrator. The default IP address of the unit is 192.168.1.1.
- Configure the IP address, subnet Mask, default gateway and name server. The default net mask is 255.255.255.0.

Configuring the Ethernet port.

Use the following procedure to change the IP address, sub net mask, gateway and name server. These parameters are remembered when the power is turned off.

Note: These parameters can only be entered from the front panel of the RDSP-3000A-NIST.

Configuring the Password

The default password for the RDSP-3000A-NIST is "0", and if security is not a concern leave it at "0" and ignore the following steps.

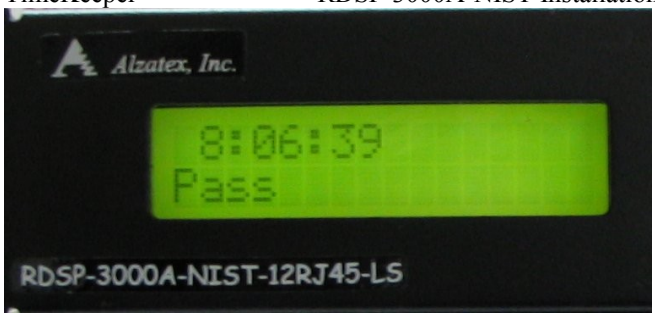
- **Momentarily press** the **Setup** Button.
- **Turn** the **knob** to enter the current password. The display will be similar to the following diagram:

```
Password:
  0
```

- **Momentarily press** the **Password** button to enter the new password. The display will be similar to the following diagram:

```
Set Password:
  0
```

- **Turn** the **knob** to select the desired password (1-255).
- **Momentarily press** the **Save** button to store the new password.



Configuring the Network Addresses

The default IP address is 192.168.1.1, and subnet mask is 255.255.255.0 Change these and other network addresses by doing the following:

- **Momentarily press** the **Setup** Button.
- **Turn** the **knob** to enter the current password. The display will be similar to the following diagram:

```
Password:
  0
```

- **Momentarily press** the **Network** button to enter the new IP address. The display will be similar to the following diagram:

```
IP Address:
192.168.1.20
```

- **Turn** the **knob** to select the IP address, using the **Select** button to switch between the 1st, 2nd, 3rd, and 4th octets.
- **Momentarily press** the **Save** button to store the new IP address.
- **Momentarily press** the **Network** button to enter the new subnet mask. The display will be similar to the following diagram:

```
Subnet Mask:
255.255.255.0
```

- **Turn** the **knob** to select the subnet mask, using the **Select** button to switch between the 1st, 2nd, 3rd, and 4th octets.
- **Momentarily press** the **Save** button to store the new subnet mask.
- **Momentarily press** the **Network** button to enter the new default gateway. The display will be similar to the following diagram:

```
Default
Gateway:
192.168.1.6
```

- **Turn** the **knob** to select the default gateway, using the **Select** button to switch between the 1st, 2nd, 3rd, and 4th octets.
- **Momentarily press** the **Save** button to store the new default gateway.
- **Momentarily press** the **Network** button to enter the new nameserver. The display will be similar to the following diagram:

```
Nameserver:
192.168.1.7
```

- **Turn** the **knob** to select the name server, using the **Select** button to switch between the 1st, 2nd, 3rd, and 4th octets.
- **Momentarily press** the **Save** button to store the new name server.
- **Momentarily press** the **Network** button to return to the time display.

Other Front Panel Operations.

Updating the Time

Momentarily press the **Update** button to query the current date and time. If the query is successful the LCD will display "Pass", and look similar to the diagram below:

```
13:16:45
PASS
```

Note: In order for the Update to work the network addresses and time retrieval must be set up. See the Ethernet configuration section above, and the following web interface section for setting up the RDSP-3000A-NIST.

Checking the software revision

Knowing the software revision may be important when talking to Alzatex about your system. Do the following to display the software revision:

- **Momentarily press** the **Setup** Button.
- **Turn** the **knob** to enter the current password. The display will be similar to the following diagram:

```
Password:
  0
```

- **Momentarily press** the **Version** button to view the software revision. The display will be similar to the following diagram:

```
Version:
2.11
```

RDSP-3000A-NIST Master Clock Specifications

Power Requirements	
Min Load	12 VDC @ .5A (0 devices)
Max Load	12 VDC @ 9A (12 devices*)
Connection	6-pin Molex
External Power Supply (included)	
Manf	Symbol Technologies
Model	SYM04-1
Input	100-120/200-240VAC, 3A,1.5A
Output	12VDC, 9A
UL Listing	Level 3, E138681-83VJ
RS-232 Serial Port	
Baud Rate	2400 baud, 8 bits, 1 stop bit, no parity, no flow control.
Ethernet	
RJ-45	10/100 Base-T UTP
Web Server	HTTP
TIME Server TIME Client	Internal time server supports the RFC-868 protocol.
Java Clock	UDP
NOTE: Only one client at a time is permitted to connect to the master clock.	
RJ-45 Remote Display Outputs	
Baud Rate	RS422 outputs with 2400 baud, 8 bits, 1 stop bit, no parity.
Mode	Transmit only
Format (clocks)	<CR>TMEhhmmss<LF> Transmitted once per minute, if enabled, or each time the "Update Time Now" function executes.
Format (displays)	<CR>DSPhhmmss<LF> Transmitted once per second, if enabled.
Display Power	11 to 16 volts @ 250mA
Cable Length	Maximum 200 feet.
NOTE: Lengths of 500 feet or more may be attained by using larger conductor wire. See local building codes for allowable cable sizing.	

***** The actual number of devices that can be connected to the unit depends on the current requirements of each device.

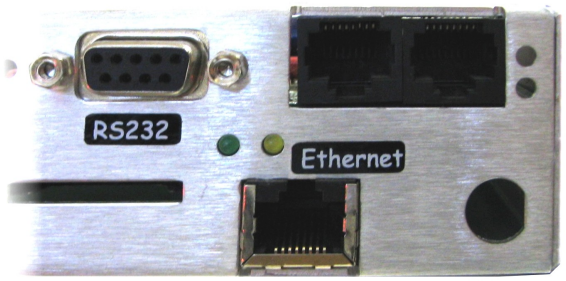
RDSP-3000A-NIST Master Clock Accuracy

The accuracy of the internal 32,768Hz clock crystal is typically 20PPM. The worst case accuracy is 50PPM.

The master clock can be configured to use the RFC-868 protocol to connect to a time source on, or outside the local network to request a network time update.

The network time update sets the master clock's time and date to within ± one second of the time source referenced. Typical network delays of 1/10 to 2/10 second have been observed with the master clock directly connected to a WAN. If your network has delays in excess of 1/2 second between the master clock and the outside WAN, it is advisable to reconfigure the network, or provide a separate connection to the provide time service.

If better than ± one second accuracy is required, a GPS clock should be used as the master time source.



RDSP-3000A-NIST Secondary Clock Specifications

Power Requirements	
Min Load	12 VDC @ .5A (0 devices)
Max Load	12 VDC @ 9A (12 devices*)
Connection	6-pin Molex
External Power Supply (included)	
Manf	Symbol Technologies
Model	SYM04-1
Input	100-120/200-240VAC, 3A,1.5A
Output	12VDC, 9A
UL Listing	Level 3, E138681-83VJ
RJ-45 Remote Outputs	
Baud Rate	RS422 outputs with 1200, 2400(default), 4800, 9600, 19200, 38400, 56800, and 115200 baud, 8 bits, 1 stop bit, no parity.
Mode	Transmit only
Format (clocks)	<CR>TMEhhmmss<LF> Transmitted once per minute, if enabled, or each time the "Update Time Now" function executes.
Format (displays)	<CR>DSPhhmmss<LF> Transmitted once per second, if enabled.
Display Power	11 to 16 volts @ 250mA
Cable Length	Recommended maximum, 500 feet per output**.
NOTE: Lengths of 1000 feet or more may be attained by using larger conductor wire. See local building codes for allowable cable sizing.	
RJ-45 Remote Input	
Baud Rate	An optically coupled RS422 input*** with 1200, 2400(default), 4800, 9600, 19200, 38400, 56800, and 115200 baud, 8 bits, 1 stop bit, no parity.
Mode	Receive only.
Format (clocks)	<CR>TMEhhmmss<LF>

* The actual number of devices that can be connected to the unit depends on the current requirements of each device.

** Depending on load. The total voltage drop on the power supply should not exceed the minimum supply voltage required for the connected device.

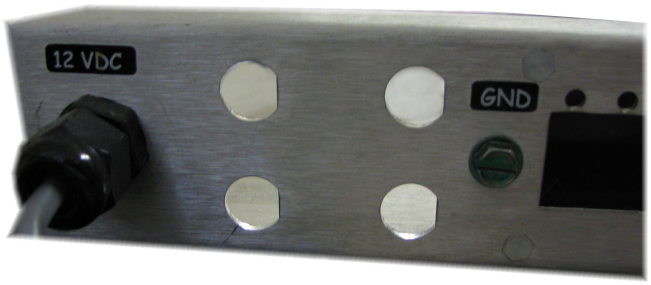
*** An additional loop back output allows daisy-chaining multiple units.

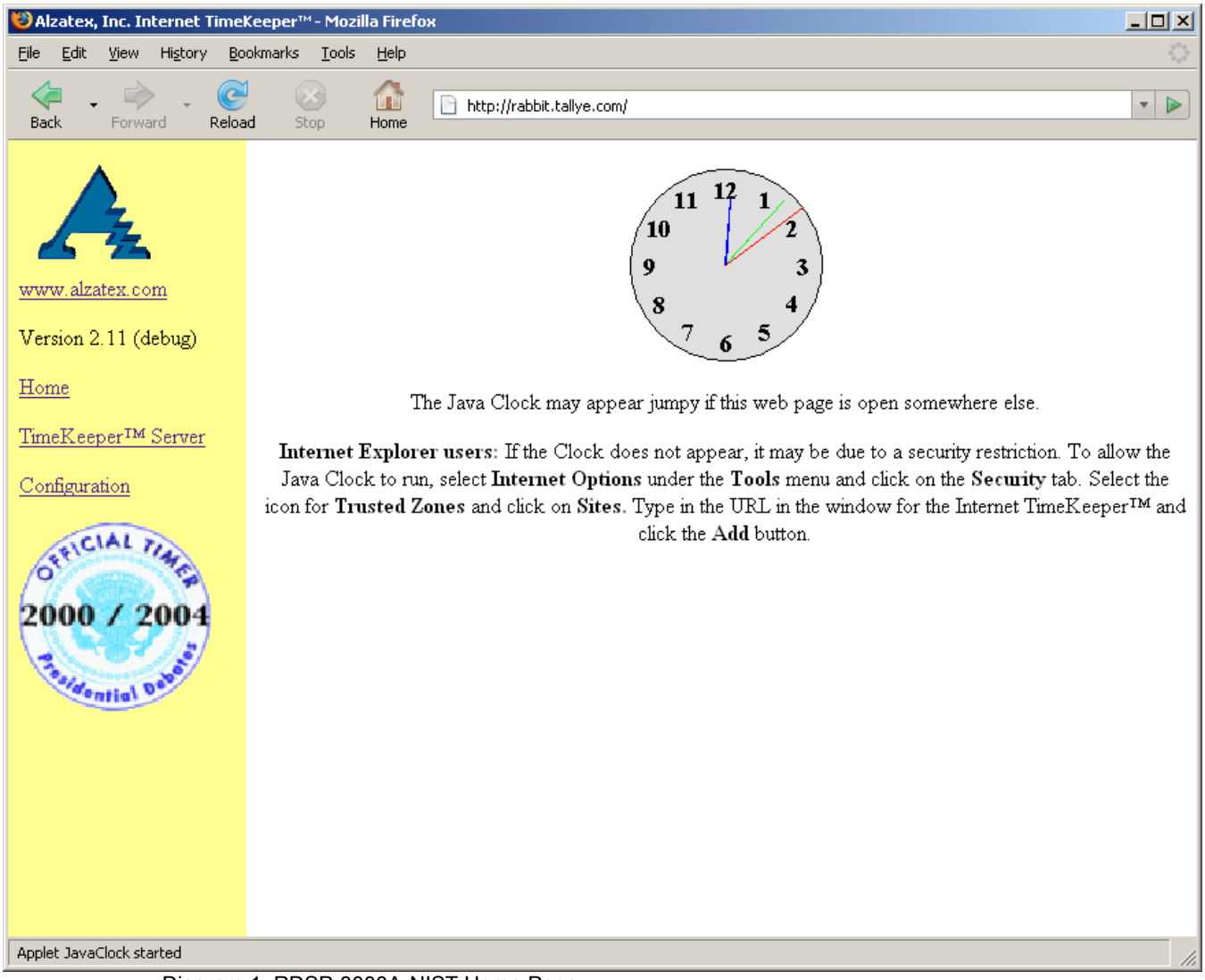
RDSP-3000A-NIST Secondary Clock Accuracy

Secondary clocks are synchronized to the 50/60 Hz AC power line. Clock accuracy is maintained by a method called cycle counting. In most first world countries, the typical long term accuracy of the AC power line is ± one second per year, although, at any specific time, the time may be ± 8 seconds. The power companies correct the time by speeding up, or slowing down the power generators as needed to maintain the long term cycle count at 50/60 cycles per second.

During normal operation, it is advisable to obtain a time update once per week or whenever any power outage, or alarm event has occurred.

When a secondary clock is connected to a UPS, and the mains power is turned off, the cycle count is obtained from the UPS internal timing system. It is advisable to obtain an update from the external master clock once per hour during times of extended power outage unless it can be assured that the UPS generates accurate cycle timing.




Alzatex, Inc. Internet TimeKeeper™ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
http://rabbit.tallye.com/
www.alzatex.com
Version 2.11 (debug)
Home
TimeKeeper™ Server
Configuration
OFFICIAL TIMER
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Presidential Debates
The Java Clock may appear jumpy if this web page is open somewhere else.
Internet Explorer users: If the Clock does not appear, it may be due to a security restriction. To allow the Java Clock to run, select Internet Options under the Tools menu and click on the Security tab. Select the icon for Trusted Zones and click on Sites. Type in the URL in the window for the Internet TimeKeeper™ and click the Add button.
Applet JavaClock started

Diagram 1: RDSP-3000A-NIST Home Page

RDSP-3000A-NIST Web Interface

There is a web server built into the RDSP-3000A-NIST. Use any web browser to access the RDSP-3000A-NIST web page.

- Open your web browser.
- Enter the URL for the RDSP-3000A-NIST. If the RDSP-3000A-NIST is connected to your facility's network, have the network administrator assign a meaningful name to the RDSP-3000A-NIST web server.
- The home page for the RDSP-3000A-NIST shows a Java clock with the units current time.

Note: If more than one person is accessing the page at a time, only one person will see the Java clock ticking.

Internet Explorer users

A security restriction in Internet Explorer can disable the Java Clock. Enable the Java clock by disabling this restriction:

- Open Internet Explorer
- Click on the **Tools** menu and select **Internet Options...**
- Click on the **Security** tab at the top.
- Select the **Trusted Sites** icon.
- Click on the **Sites…**button.
- Type in the full URL for the Internet Timekeeper into the box and click the **Add,** and **OK** buttons.

*Note: **Do not** check the Require server verification check box.*

- Click the **Custom Level…** button.
- Under **Microsoft VM**, set the **Java Permissions** to **Custom**.
- Click the **Java Custom Settings…** button.
- Click on the **Edit Permissions** tab.
- Under **Additional Unsigned Permissions**, enable **Access to All Network Addresses.**

TimeKeeper Server

The TimeKeeper server link allows one to manually setup the time-of-day clock, configure the remote time servers, and view and maintain the TimerKeeper server's log file.

- Open a web browser.
- Enter the URL for the RDSP-3000A-NIST.
- Click on the **TimerKeeper Server** link located on the home page.

Manually Querying the Time Servers

Normally the time is updated manually. Click on the **Update Time Now** link to manually query the time servers.

Setting the Time of Day Clock

Normally the time is set automatically. Do the following to set the time of day clock manually:

- Click on the **Set Time and Date** link.
- Enter the new time and date in their respective fields and click the **Update** button.

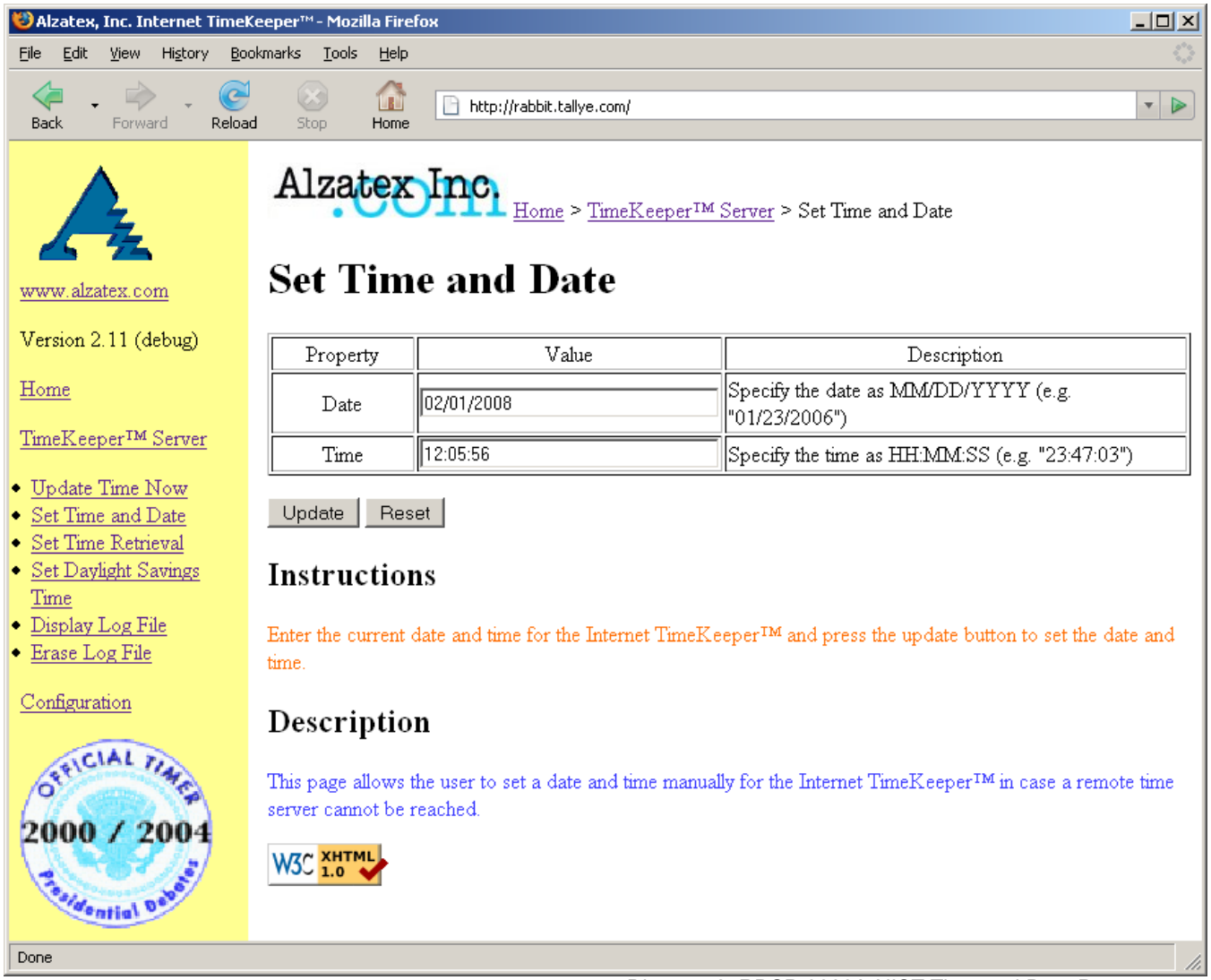

Alzatex, Inc. Internet TimeKeeper™ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
http://rabbit.tallye.com/
www.alzatex.com
Version 2.11 (debug)
Home
TimeKeeper™ Server
Update Time Now
Set Time and Date
Set Time Retrieval
Set Daylight Savings Time
Display Log File
Erase Log File
Configuration
OFFICIAL TIMER 2000 / 2004 Presidential Debates
Alzatex Inc.
Home > TimeKeeper™ Server > Set Time and Date
Set Time and Date
Property
Value
Description
Date
02/01/2008
Specify the date as MM/DD/YYYY (e.g. "01/23/2006")
Time
12:05:56
Specify the time as HH:MM:SS (e.g. "23:47:03")
Update
Reset
Instructions
Enter the current date and time for the Internet TimeKeeper™ and press the update button to set the date and time.
Description
This page allows the user to set a date and time manually for the Internet TimeKeeper™ in case a remote time server cannot be reached.
W3C XHTML 1.0
Done

Diagram 2: RDSP-3000A-NIST Time and Date Page

Configuring the Time Servers

The RDSP-3000A-NIST supports up to five time servers (one primary, four back-ups), using the TIME protocol (RFC868). The RDSP-3000A-NIST queries the primary time server to retrieve the time and date. If a failure is encountered, it will continuing down the list, querying each backup server. Do the following to setup the time servers:

- Click on the **Set Time retrieval** link.
- **Time Server 1-5:** Enter up to five time servers in the appropriate fields. Server names may be entered as IP addresses, hostnames, or DNS names.
- **Default domain:** Enter the domain name for your facility's DNS server.
- **Connection timeout:** Enter the desired connection timeout (in seconds).
- **Time format:** Select the desired time format from the drop down list. 12 or 24 hour time formats are available.
- **Time zone:** Select the desired time zone from the drop down list.
- **Daylight savings:** Indicate your facility's use of daylight savings time by selecting US, None, or Custom. This is now a user-modifiable option.
- **Time Checking Interval:** Select the query interval for the time servers by selecting the desired time from the drop down list. Weekly, daily, hourly, and 30 second intervals are available. If a query fails, retries are executed as follows:

Query interval	Retry interval
Weekly	Hourly
Daily	10 minutes
Hourly	5 minutes
30 seconds	15 seconds

- **Notable Time Difference:** Enter the largest time difference (in seconds) allowed between the RDSP-3000A-NIST and a remote time server.

  Note: Enter zero to update the time after each successful query.

- **Time updates:** Select how the RDSP-3000A-NIST transmits the time to other units.
  - **TME** commands. Units that have their own internal time of day clock receive the TME commands to set the correct time. The TME commands are sent every time either an automatic or manual time update occurs.
  - **DSP** commands. Units that are displays only and do not keep track of time internally may receive the DSP commands. If enabled, the DSP commands are sent once per second.

Displaying and Saving the Log File

The RDSP-3000A-NIST event log entries consist of, in order: date of entry, time of entry in GMT (Greenwich Mean Time), log file event code, value of the event code; description of the event code.

- View the log file at any time by clicking on the Display Log File link.
- Save the log file by using the Save As feature of your browser. The file will be saved as ASCII text in the comma separated value format (CSV), which can be imported into spreadsheet and text editor programs.

Summary of Log entries

105	Bad nameserver handle (value=time server #)
106	Nameserver did not respond (value=time server #)
107	Hostname invalid (value=time server #)
108	No nameserver defined (value=time server #)
109	Hostname too long (value=time server #)
110	No free entries for DNS lookup (value=time server #)
111	Remote computer queried my time (value=LSB of IP Address)
112	Password has been changed (value=new password)
113	New System time (value=time server #)
114	System time has changed (value=time server #)
115	Could not resolve address of time server (value=time server #)
116	Could not connect to time server (value=time server #)
117	Power Up (value=NA)
118	User button pressed (value=1-8)
119	N/A
120	N/A
121	New Time of day clock value (value=NA)
122	Time of day clock changed (value=NA)
123	N/A
124	N/A
125	N/A
126	Log file saved (value=NA)
127	Log file deleted (value=number of entries)

*Note: When you display a log file, the message "Unknown Command" may appear. This can happen when a log entry is written at the same time one is accessing the log file. Click on **RELOAD** or **REFRESH** in your web browser to fix the problem.*

Alzatex, Inc. Internet TimeKeeper™ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
http://rabbit.tallye.com/
www.alzatex.com
Version 2.11 (debug)
Home
TimeKeeper™ Server
Update Time Now
Set Time and Date
Set Time Retrieval
Set Daylight Savings Time
Display Log File
Erase Log File
Configuration
OFFICIAL TIMER
2000 / 2004
Presidential Debates
Alzatex Inc.
Home > TimeKeeper™ Server > Set Time Retrieval
Set Time Retrieval
Property
Value
Description
Time Server 1
NTP
hosea.tallye.com
Hostname of an RFC868 time server.
Time Server 2
TIME
Hostname of an RFC868 time server.
Time Server 3
TIME
Hostname of an RFC868 time server.
Time Server 4
TIME
Hostname of an RFC868 time server.
Time Server 5
TIME
Hostname of an RFC868 time server.
Default domain
alzatex.cc
Default domain to use in a DNS Name lookup.
Last Connected Server
1
The time server with the last successful connection. Zero is displayed if no connection was established.
Connection Timeout
5
Maximum timeout for TCP connections in seconds.
Time Format
24
Clocks display in 12 hour or 24 hour formats.
Timezone
PST/PDT (-8)
Time offset of current location from GMT.
Daylight Savings
US
Whether US Daylight saving time is observed.
Time Checking Interval
Weekly
This sets the time interval for synchronizing the Internet TimeKeeper™ with the remote time servers.
Notable Time Difference
5
The largest time difference allowed between the Internet TimeKeeper™ and the remote time servers. Enter zero to always log system time changes.
Time updates
TME
Use DSP and TME to directly drive any time displays within the Internet TimeKeeper™. Use TME only if slave clocks are used to drive all of the time displays.
Update
Reset
Instructions
Enter values for each of the text boxes to configure the system as desired and click Update. See the description field for the values to enter.
Done

Diagram 3: RDSP-3000A-NIST Time Retrieval Page

Configuring DST Settings

The TimeKeeper™ Server now has the ability to customize the range of dates covered by DST changes, and to set the offset those changes apply to the default zone information.

- Click on the "Set Daylight Savings Time" link
  - Daylight Savings
  - Time Set Offset
  - From Date
  - To Date

The "Daylight Savings" item allows you to choose between having no DST (None), using current US settings (US), or employing a customized setting (Custom). The below options only take effect when this one is set to "Custom".

The "Time Set Offset" item allows an arbitrary change in time for a period of the year for an interval specified in one-minute increments. This allows for half-hour DST changes.

The "From" item specifies on what date the custom offset begins, in terms of the day of the week, the week of the month, the month of the year, and the time (traditional DST begins at 2 am on the second Sunday in March).

The "To" item specifies on what date the custom offset ends, in terms of the day of the week, the week of the month, the month of the year, and the time (traditional DST ends at 2 am on the first Sunday in November).

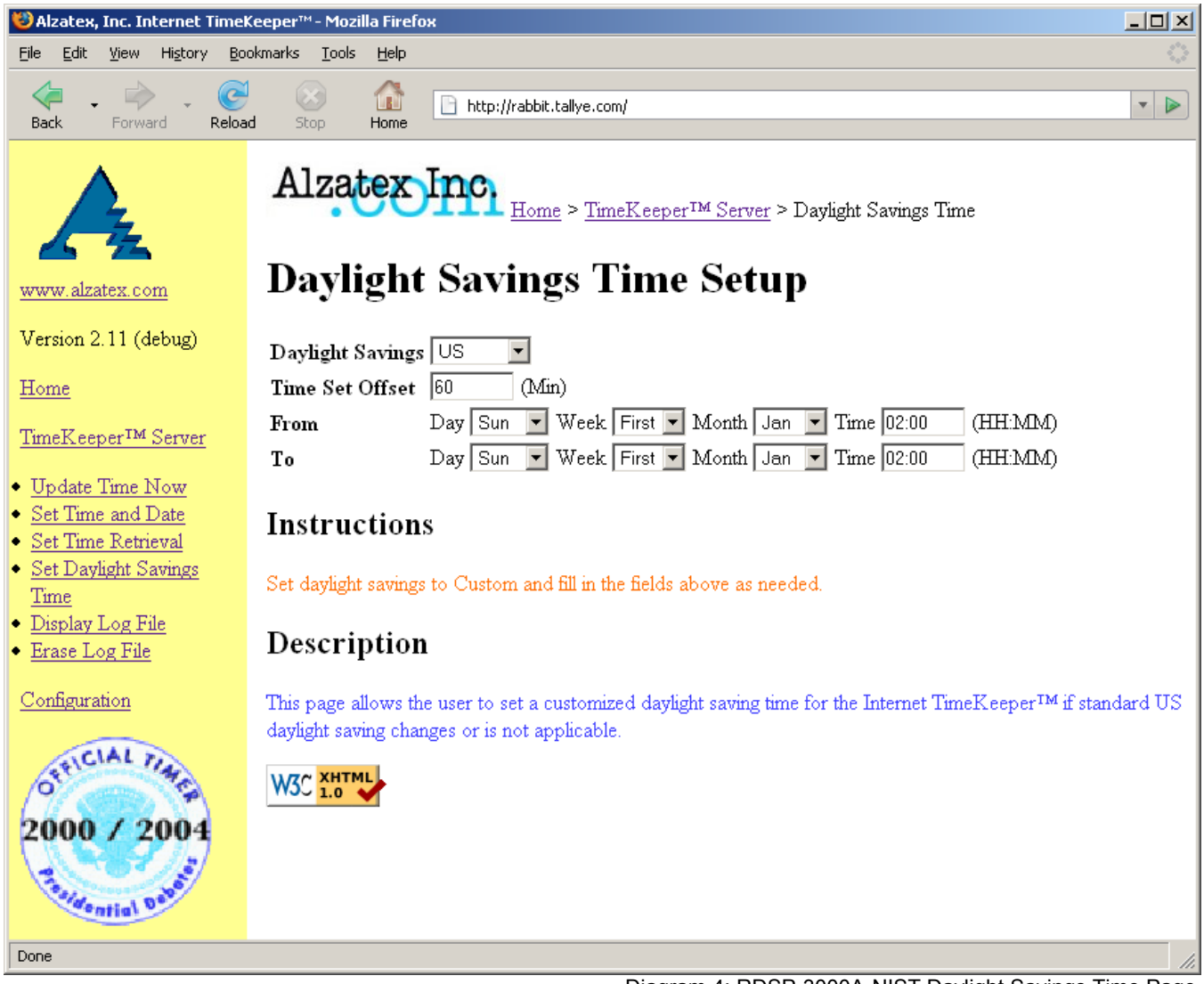

Alzatex, Inc. Internet TimeKeeper™ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
http://rabbit.tallye.com/
www.alzatex.com
Version 2.11 (debug)
Home
TimeKeeper™ Server
Update Time Now
Set Time and Date
Set Time Retrieval
Set Daylight Savings Time
Display Log File
Erase Log File
Configuration
OFFICIAL TIMER
2000 / 2004
Presidential Debates
Alzatex Inc .com
Home > TimeKeeper™ Server > Daylight Savings Time
Daylight Savings Time Setup
Daylight Savings US
Time Set Offset 60 (Min)
From Day Sun Week First Month Jan Time 02:00 (HH:MM)
To Day Sun Week First Month Jan Time 02:00 (HH:MM)
Instructions
Set daylight savings to Custom and fill in the fields above as needed.
Description
This page allows the user to set a customized daylight saving time for the Internet TimeKeeper™ if standard US daylight saving changes or is not applicable.
W3C XHTML 1.0
Done

Diagram 4: RDSP-3000A-NIST Daylight Savings Time Page

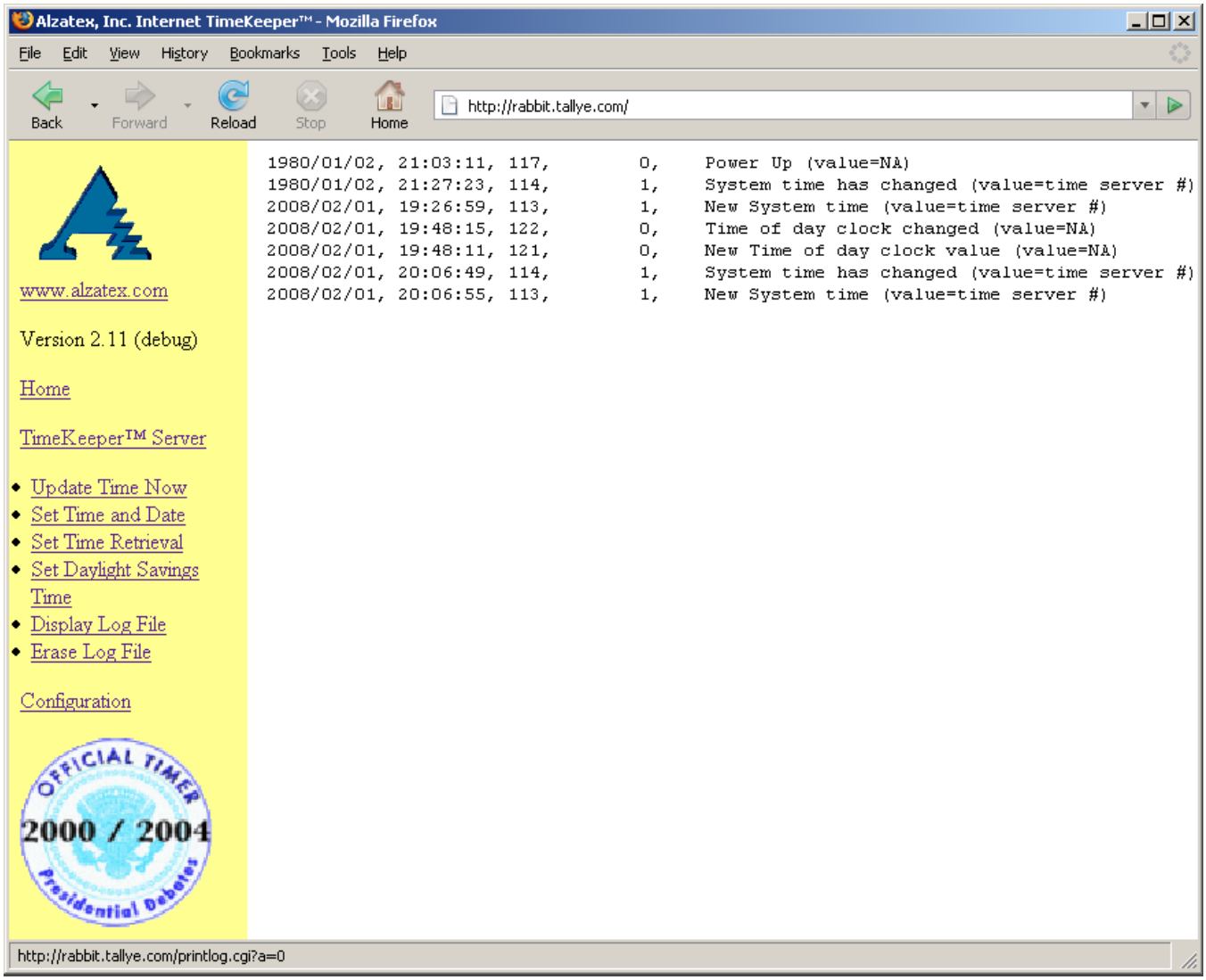

Alzatex, Inc. Internet TimeKeeper™ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
http://rabbit.tallye.com/
1980/01/02, 21:03:11, 117, 0, Power Up (value=NA)
1980/01/02, 21:27:23, 114, 1, System time has changed (value=time server #)
2008/02/01, 19:26:59, 113, 1, New System time (value=time server #)
2008/02/01, 19:48:15, 122, 0, Time of day clock changed (value=NA)
2008/02/01, 19:48:11, 121, 0, New Time of day clock value (value=NA)
2008/02/01, 20:06:49, 114, 1, System time has changed (value=time server #)
2008/02/01, 20:06:55, 113, 1, New System time (value=time server #)
www.alzatex.com
Version 2.11 (debug)
Home
TimeKeeper™ Server
Update Time Now
Set Time and Date
Set Time Retrieval
Set Daylight Savings Time
Display Log File
Erase Log File
Configuration
OFFICIAL TIMER
2000 / 2004
Presidential Debates
http://rabbit.tallye.com/printlog.cgi?a=0

Diagram 5: RDSP-3000A-NIST Log Page

Erasing the Log File

- Delete the log file by clicking the **Erase Log File** link.
- Enter "YES" in capital letters into the edit box.
- Click the **Erase Log** button to delete the log file.

Configuration

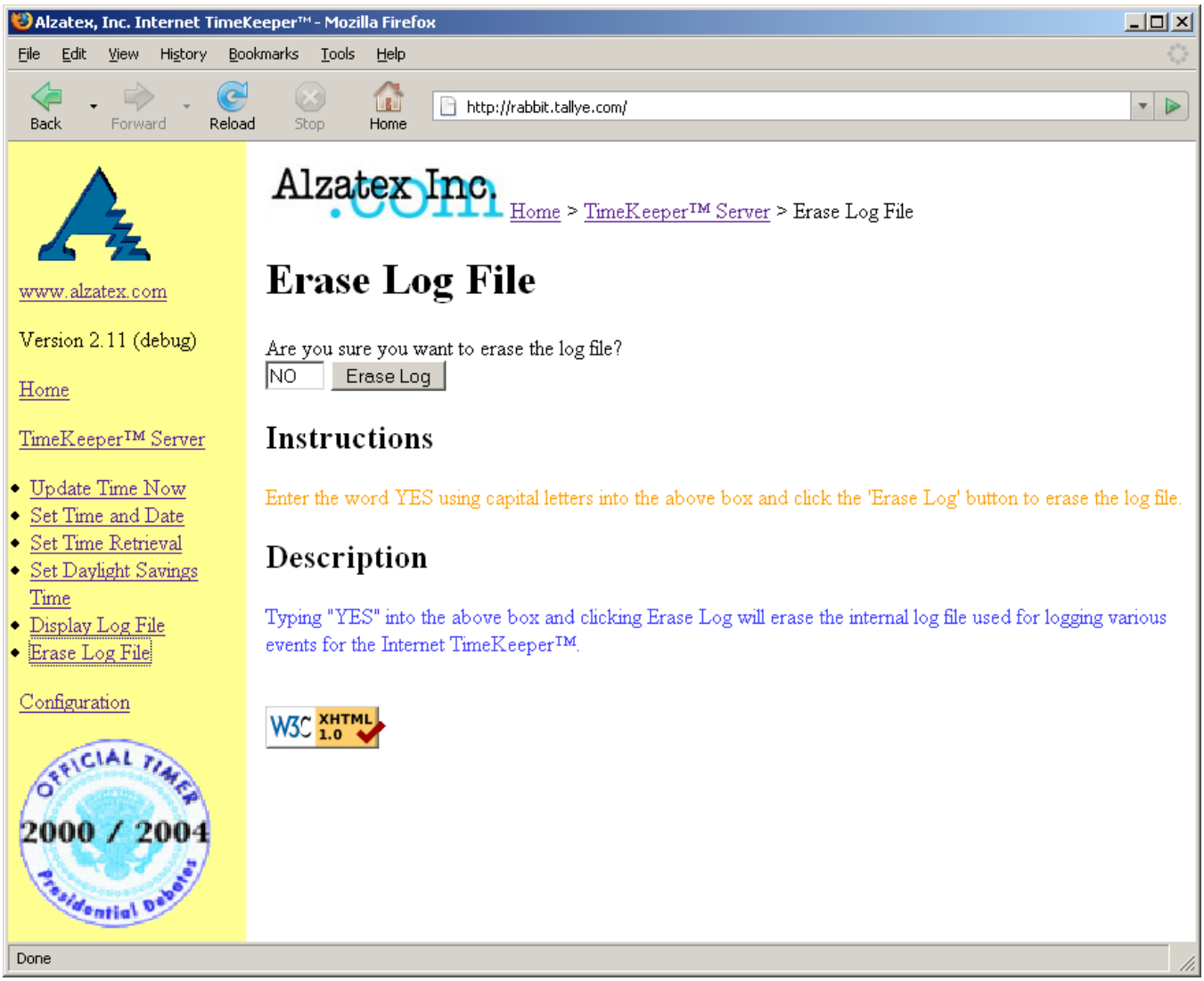
The Configuration link allows one to configure the display brightness, network parameters, and password.

- Open a web browser.
- Enter the URL for the RDSP-3000A-NIST.
- Click on the **Configuration** link located on the home page.

Dimming the Display

By default the RDSP-3000A-NIST is at 100% brightness 24 hours per day. One can dim, or brighten the display at a predetermined time. Do the following to set the day and night brightness levels:

- Click on the **Display Dimming** link.
- **Day Time:** Enter the time in 24-hour time format, and the brightness level in percent-of-maximum.
- **Night Time:** Enter the time in 24-hour time format, and the brightness level in percent-of-maximum.
- Click the **Update** button to save the changes.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File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
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www.alzatex.com
Version 2.11 (debug)
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Set Time and Date
Set Time Retrieval
Set Daylight Savings Time
Display Log File
Erase Log File
Configuration
OFFICIAL TIMER
2000 / 2004
Presidential Debates
Alzatex Inc.
Home > TimeKeeper™ Server > Erase Log File
Erase Log File
Are you sure you want to erase the log file?
NO
Erase Log
Instructions
Enter the word YES using capital letters into the above box and click the 'Erase Log' button to erase the log file.
Description
Typing "YES" into the above box and clicking Erase Log will erase the internal log file used for logging various events for the Internet TimeKeeper™.
W3C XHTML 1.0
Done

Diagram 6: RDSP-3000A-NIST Erase Log file page

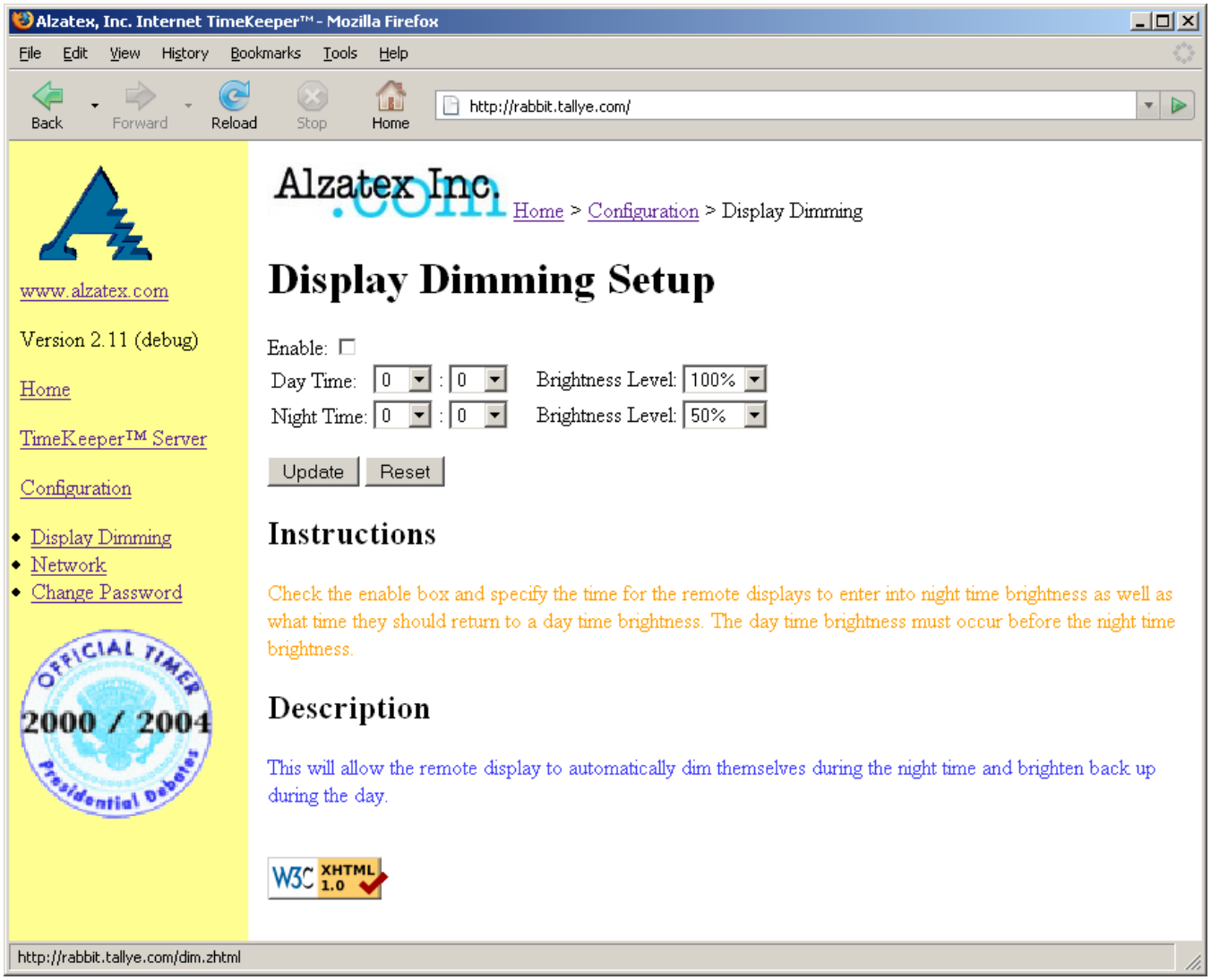
Alzatex, Inc. Internet TimeKeeper™ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
http://rabbit.tallye.com/
Alzatex Inc.com
Home > Configuration > Display Dimming
www.alzatex.com
Version 2.11 (debug)
Home
TimeKeeper™ Server
Configuration
Display Dimming
Network
Change Password
OFFICIAL TIMER
2000 / 2004
Presidential Debates
Display Dimming Setup
Enable:
Day Time: 0 : 0 Brightness Level: 100%
Night Time: 0 : 0 Brightness Level: 50%
Update Reset
Instructions
Check the enable box and specify the time for the remote displays to enter into night time brightness as well as what time they should return to a day time brightness. The day time brightness must occur before the night time brightness.
Description
This will allow the remote display to automatically dim themselves during the night time and brighten back up during the day.
W3C XHTML 1.0
http://rabbit.tallye.com/dim.zhtml

Diagram 7: RDSP-3000A-NIST Display Dimming page

Note: The day time value must occur before the night time value.

Viewing and Configuring the Network Parameters

The RDSP-3000A-NIST configuration pages allows one to view the network parameters, and to set the default domain for DNS name lookup.
Do the following to view the network parameters:

- Click the **Network** link.
- The following parameters can be viewed but not modified via the web interface.

IP Address	IP address
Netmask	Network subnet mask
Gateway	Default gateway
Nameserver	DNS name server
Ethernet	MAC address of ethernet chip

- **Default domain:** Enter the default name the RDSP-3000A-NIST uses for looking up DNS names.
    - Click the **Update** button to save the settings.

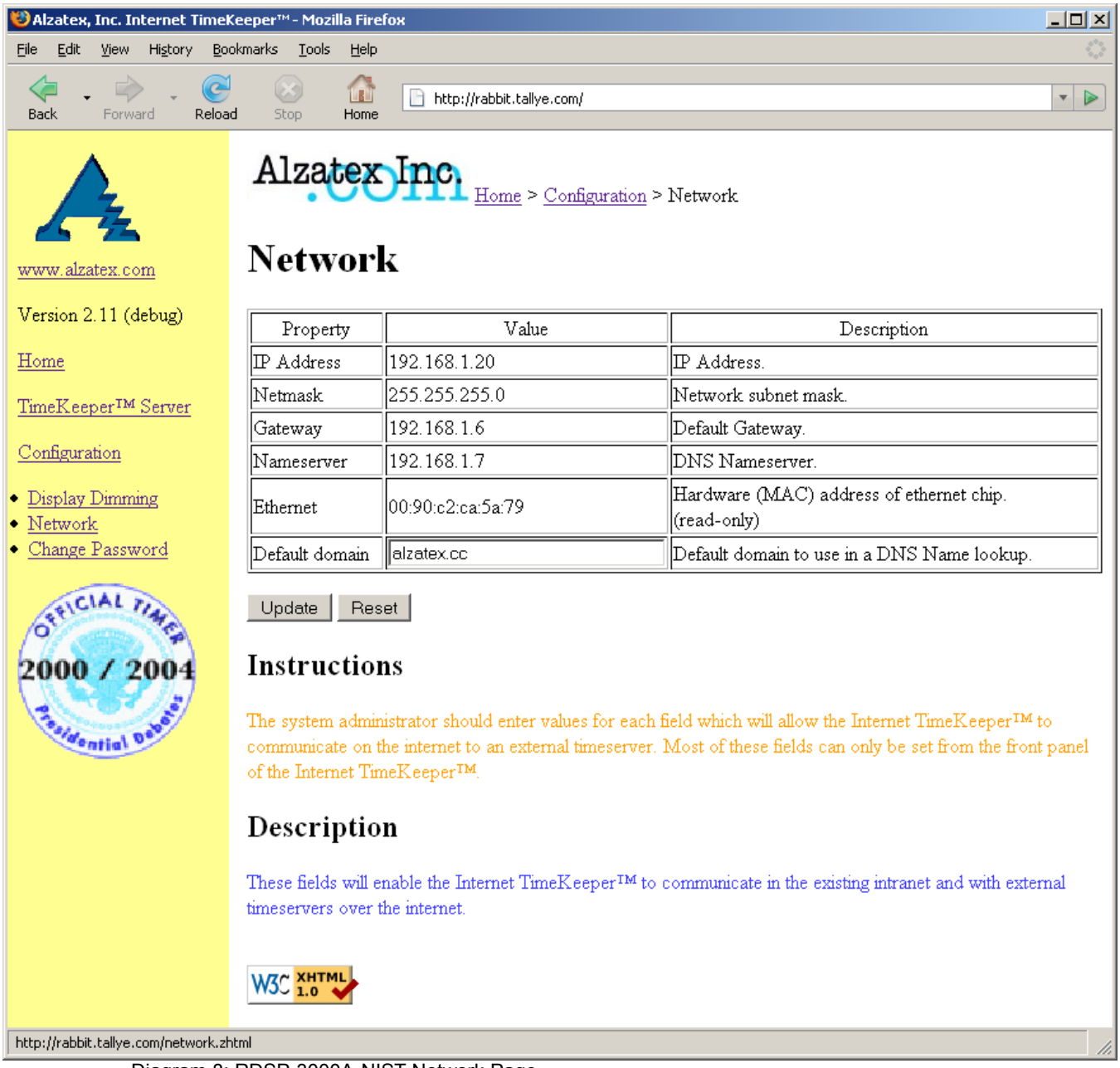
Alzatex, Inc. Internet TimeKeeper™ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
http://rabbit.tallye.com/
Alzatex Inc.com
Home > Configuration > Network
www.alzatex.com
Version 2.11 (debug)
Home
TimeKeeper™ Server
Configuration
Display Dimming
Network
Change Password
OFFICIAL TIMER
2000 / 2004
Presidential Debates
Network
Property | Value | Description
IP Address | 192.168.1.20 | IP Address.
Netmask | 255.255.255.0 | Network subnet mask.
Gateway | 192.168.1.6 | Default Gateway.
Nameserver | 192.168.1.7 | DNS Nameserver.
Ethernet | 00:90:c2:ca:5a:79 | Hardware (MAC) address of ethernet chip. (read-only)
Default domain | alzatex.cc | Default domain to use in a DNS Name lookup.
Update Reset
Instructions
The system administrator should enter values for each field which will allow the Internet TimeKeeper™ to communicate on the internet to an external timeserver. Most of these fields can only be set from the front panel of the Internet TimeKeeper™.
Description
These fields will enable the Internet TimeKeeper™ to communicate in the existing intranet and with external timeservers over the internet.
W3C XHTML 1.0
http://rabbit.tallye.com/network.zhtml

Diagram 8: RDSP-3000A-NIST Network Page

Changing the Password

By default the RDSP-3000A-NIST is not password protected. One secures the RDSP-3000A-NIST against unauthorized access through the web interface using the configuration pages. Do the following to change the password:

- Click the **Change Password** link.
- **Password:** Enter the desired password.
- **Verify Password:** Enter the password again for verification.
- Click the **Change Password** button to save the new password. The Password and Verify Password fields are compared, and must be the same before the password is saved.

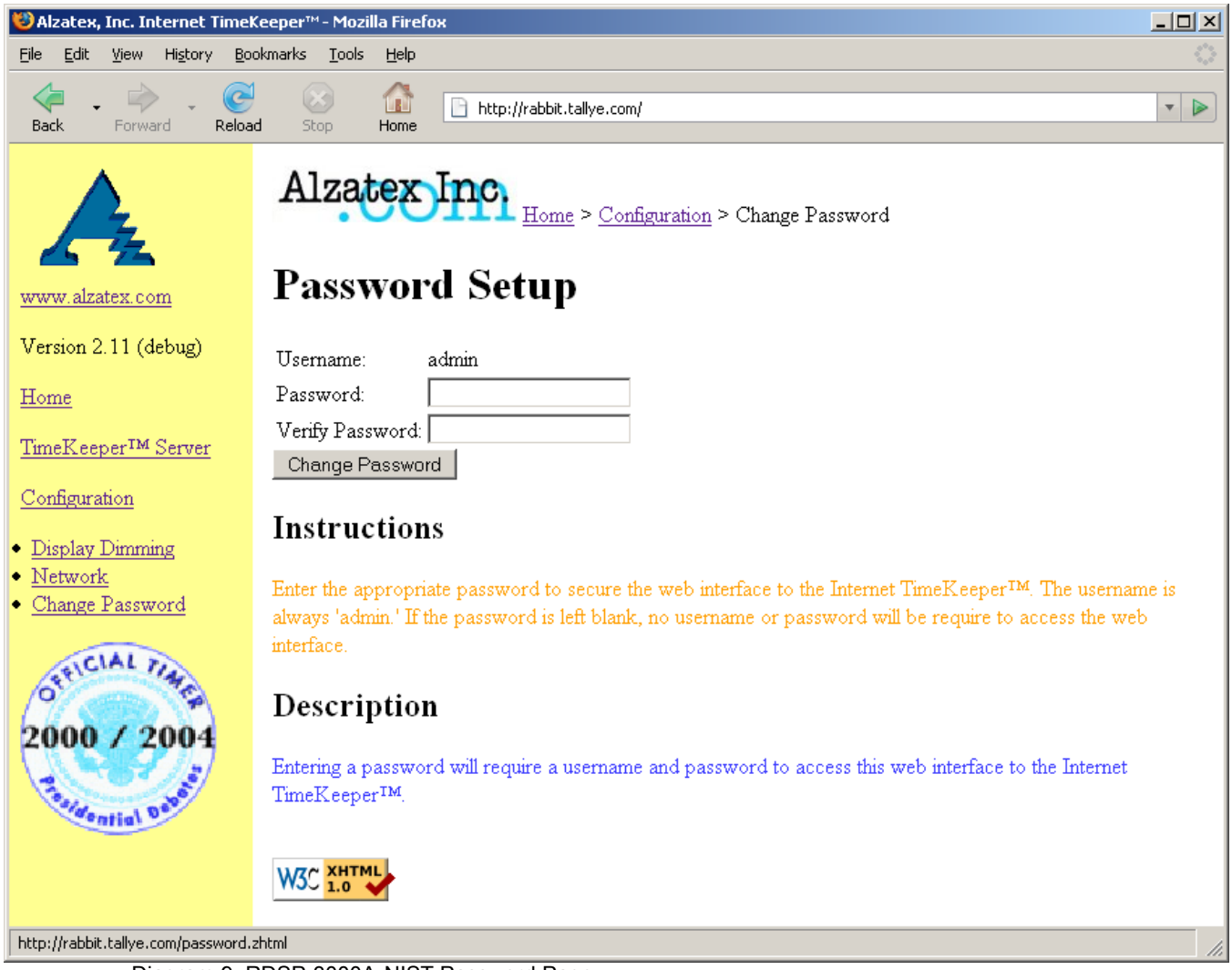
Alzatex, Inc. Internet TimeKeeper™ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Back Forward Reload Stop Home
http://rabbit.tallye.com/
www.alzatex.com
Version 2.11 (debug)
Home
TimeKeeper™ Server
Configuration
Display Dimming
Network
Change Password
OFFICIAL TIMER
2000 / 2004
Presidential Debates
Alzatex Inc.
Home > Configuration > Change Password
Password Setup
Username: admin
Password:
Verify Password:
Change Password
Instructions
Enter the appropriate password to secure the web interface to the Internet TimeKeeper™. The username is always 'admin.' If the password is left blank, no username or password will be require to access the web interface.
Description
Entering a password will require a username and password to access this web interface to the Internet TimeKeeper™.
W3C XHTML 1.0
http://rabbit.tallye.com/password.zhtml

Diagram 9: RDSP-3000A-NIST Password Page